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– DECEMBER 2012 –

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### SELECTED REFERENCES

[The Selected References section is a compilation of recent publications of presumed interest to forensic chemists. Unless otherwise stated, all listed citations are published in English. Abbreviated mailing address information duplicates that which is provided by the abstracting service. Patents and Proceedings are reported only by their *Chemical Abstracts* citation number. For full text copies of any of the articles listed, you may email the DEA Library at [dea.library@usdoj.gov](mailto:dea.library@usdoj.gov).]

1. Abiedalla YFH, Abdel-Hay K, DeRuiter J, Clark CR. **Synthesis and GC-MS analysis of a series of homologs and regioisomers of 3,4-methylenedioxypyrovalerone (MDPV).** *Forensic Science International* 2012;223(1-3):189-197. [Editor's Notes: Presents title study. Contact: Department of Pharmacal Sciences, Harrison School of Pharmacy, Auburn University, Auburn, AL 36849, USA.]
2. Couch RAF, Madhavaram H. **Phenazepam and cannabinomimetics sold as herbal highs in New Zealand.** *Drug Testing and Analysis* 2012;4(6):409-414. [Editor's Notes: Presents title study. Contact: Auckland City Hospital, Auckland, New Zealand.]
3. Ivanova B, Spiteller M. **Quantitative analysis of substituted N,N-dimethyl-tryptamines in the presence of natural type XII alkaloids.** *Natural Product Communications* 2012;7(10):1273-1276. [Editor's Notes: This paper presents the qualitative and quantitative analysis of N,N-dimethyltryptamine, 5-methoxy-N,N-dimethyltryptamine, and 5-hydroxy-N,N-dimethyltryptamine in the presence of  $\beta$ -carbolines by HPLC, ESI-MS, MALDI-MS, and Raman spectroscopy. Contact: Institute of Environmental Research, Department of Environmental Chemistry and Analytical Chemistry, University of Dortmund, Dortmund 44221, Germany.]

4. NicDaeid N, Meier-Augenstein W, Kemp HF, Sutcliffe OB. **Using isotopic fractionation to link precursor to product in the synthesis of (±)-mephedrone: A new tool for combating “legal high” drugs.** *Analytical Chemistry* 2012;84(20):8691-8696. [Editor's Notes: Presents title study. Contact: Centre for Forensic Science, Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, United Kingdom.]
5. Power JD, McDermott SD, Talbot B, O'Brien JE, Kavanagh P. **The analysis of amphetamine-like cathinone derivatives using positive electrospray ionization with in-source collision-induced dissociation.** *Rapid Communications in Mass Spectrometry* 2012;26(22):2601-2611. [Editor's Notes: Presents title study. Contact: Forensic Science Laboratory, Garda HQ, Dublin 8, Ireland.]
6. Valoti E, Casagni E, Dell'Acqua L, Pallavicini M, Roda G, Rusconi C, Straniero V, Gambaro V. **Identification of 1-butyl-3-(1-(4-methyl)naphthoyl)indole detected for the first time in “herbal high” products on the Italian market.** *Forensic Science International* 2012;223(1-3):e42-e46. [Editor's Notes: Presents title study. Contact: Dipartimento di Scienze Farmaceutiche “Pietro Pratesi,” Università degli Studi di Milano, Milan I-20133, Italy.]
7. Westphal F, Junge T. **Ring positional differentiation of isomeric N-alkylated fluorocathinones by gas chromatography/tandem mass spectrometry.** *Forensic Science International* 2012;223(1-3):97-105. [Editor's Notes: Presents title study. Contact: Section Narcotics/Toxicology, State Bureau of Criminal Investigation Schleswig-Holstein, Kiel D-24116, Germany.]

#### **Additional References of Possible Interest:**

1. Fragkaki AG, Farmaki E, Thomaidis N, Tsantili-Kakoulidou A, Angelis YS, Koupparis M, Georgakopoulos C. **Comparison of multiple linear regression, partial least squares and artificial neural networks for prediction of gas chromatographic relative retention times of trimethylsilylated anabolic androgenic steroids.** *Journal of Chromatography, A* 2012;1256:232-239. [Editor's Notes: Presents title study. Contact: Doping Control Laboratory of Athens, Olympic Athletic Center of Athens “Spyros Louis,” Kifisias 37, Maroussi, Greece 15123.]
2. Juerschik S, Agarwal B, Kassebacher T, Sulzer P, Mayhew CA, Maerk TD. **Rapid and facile detection of four date rape drugs in different beverages utilizing proton transfer reaction mass spectrometry (PTR-MS).** *Journal of Mass Spectrometry* 2012;47(9):1092-1097. [Editor's Notes: The analysis of four date rape drugs (chloral hydrate, trichloroethanol, GBL, and 1,4-butanediol) in several beverages by Proton Transfer Reaction Mass Spectrometry (PTR-MS) is presented. Sample introduction by dynamic headspace sampling and direct liquid injection are also compared. Contact: IONICON Analytik GmbH, 6020 Innsbruck, Austria.]
3. Koskela H, Hakala U, Loiske L, Vanninen P, Szilvay I. **Separation and structural characterization of a synthetic cannabinoid found in a herbal product using off-line LC-DAD-NMR.** *Analytical Methods* 2011;3(10):2307-2312. [Editor's Notes: Components of seized “herbal products” which could not be identified by GC/MS]

analysis were characterized using an off-line LC-DAD-NMR technique. The structural analysis revealed a CP 47,497-C8 homologue type compound. Contact: VERIFIN, University of Helsinki, FIN-00014 Helsinki, Finland.]

4. Murphy TM, Bola G. **DNA identification of *Salvia divinorum* samples.** Forensic Science International: Genetics 2013;7(1)189-193. [Editor's Notes: Presents title study. Contact: Department of Plant Biology, University of California, Davis, CA 95616, USA.]

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## THE DEA STATE AND LOCAL FORENSIC CHEMISTS SEMINAR SCHEDULE

The schedule for the DEA State and Local Forensic Chemists Seminar is as follows:

March 11 - 15, 2013  
June 10 - 14, 2013  
September 16 - 20, 2013  
November 4 - 8, 2013

The school is open only to forensic chemists working for law enforcement agencies. It is intended for chemists who have completed their agency's internal training program and have also been working on the bench for at least one year. There is no tuition charge. The course is held at the Hyatt Place Dulles North Hotel in Sterling, Virginia (near the Washington/Dulles International Airport). A copy of the application form is reproduced on the last page of this issue of *Microgram Bulletin*. Completed applications should be mailed to the Special Testing and Research Laboratory at 22624 Dulles Summit Court, Dulles, VA 20166. For additional information, email [DEA-Forensic.Chemist.Seminar@usdoj.gov](mailto:DEA-Forensic.Chemist.Seminar@usdoj.gov).

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